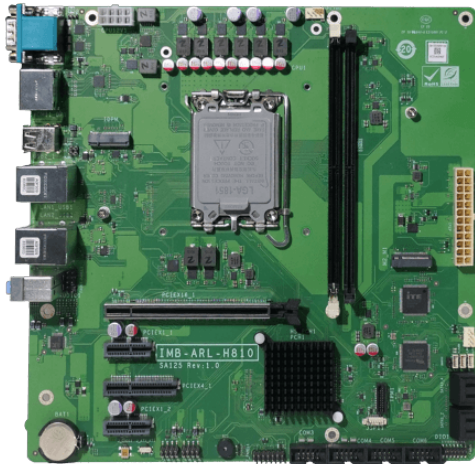


IMB-ARL-H810

micro-ATX motherboard supports high-performance Intel® Core™ Ultra Processors (Series 2)



Features

- » high-Performance Intel® Core™ Ultra Processors (Series 2)
- » Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM (UDIMM & CUDIMM) up to 96GB
- » Support dual Intel® 2.5GbE controller
- » Support PCIe Gen5 x16, PCIe Gen4 x4, PCIe Gen4 x1 and M.2 M key expansion

Specifications

Form Factor	
Form Factor	micro-ATX
System	
CPU	LGA1851 socket supports 15th generation Arrow Lake-S Intel® Ultra Processor (up to 65W TDP CPU)
Chipset	Intel®H810
Memory	Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM (UDIMM & CUDIMM) (CUDIMM support 6400MHz), supported up to 96GB
Memory Max.	96GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	244mm x 244mm
Net Weight	GW: 1200g / NW: 700g
Storage	
Storage	4 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x Display Port : DP1.4 (up to 4K@60Hz) 1 x HDMI™ : 2.0 (up to 4K@60Hz) 1 x iDPM : only for IEI module
Ethernet	2 x LAN - LAN1: Intel® I219-LM controller LAN2: Intel® I226V 2.5GbE controller
Audio	Description: Realtek ALC888S HD codec 2 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External RS-232/422/485 : RS-485 support AFC 2 x External USB 2.0 : Type-A 2 x External USB 3.2 Gen1x1 : Type-A (5Gb/s) 1 x I²C : 1x4 pin 4 x Internal RS-232 : 2x5 pin, P=2.54 4 x Internal USB 2.0 : 2xr pin, P=2.54

	2 x Internal USB 3.2 Gen2x1 : Type-A (10Gb/s)
Expansion	1 x M.2(NGFF) : M Key 2280 (PCIe Gen4 x1)
	2 x PCIe x1 : Gen4
	1 x PCIe x16 : Gen5
	1 x PCIe x4 : open-end Gen4
Other Features	
TPM	1 x TPM 2 x10 pin, support Intel PTT
Power	
Power Consumption	3.3V@0.35A, 5V@6.49A, 12V@6.18A, 5VSB@0.27A (Intel Core Ultra 9 285 with DDR5 4800MT/s U-DIMM 32GB memory)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 65°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
Watchdog Timer	
Watchdog Timer	Software Programmable support 1~255 sec. System reset

Ordering Information

IMB-ARL-H810-R10	micro-ATX motherboard supports LGA1851 Intel® 15th Generation Ultra™ processor, DDR5, Triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
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Packing List

1 x IMB-ARL-H810 single board computer	1 x I/O Shielding
2 x SATA cable	1 x QIG